
Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=4; day=19; hr=16; min=4; sec=12; ms=154;]

Reviewer Comments:

<210> 41

<211> 20

<212> DNA

<213> Synthetic reverse oligonucleotide primer HOM R2

<400> 41

gggcgattag ccattgatac

20

Numeric Identifier <213> can only be one of three choices, "Scientific name, i.e. Genus/species, Unknown or Artificial Sequence." For all sequences using "Unknown or Artificial sequence", for numeric identifier <213>, a mandatory feature is required to explain the source of the genetic material. The feature consists of <220>, which remains blank, and <223>, which states the source of the genetic material. Suggest using "Artificial sequence" for numeric identifier <213> and "Synthetic reverse oligonucleotide primer HOM R2" for numeric identifier <223> in the mandatory feature. Please check for similar errors and make all necessary changes.

Validated By CRFValidator v 1.0.3

Application No: 10562191 Version No: 2.0

Input Set:

Output Set:

Started: 2010-04-14 16:37:33.107

Finished: 2010-04-14 16:37:43.950

Elapsed: 0 hr(s) 0 min(s) 10 sec(s) 843 ms

Total Warnings: 44

Total Errors: 0

No. of SeqIDs Defined: 107

Actual SeqID Count: 107

Err	or code	Error Description
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W	402	Undefined organism found in <213> in SEQ ID (16)
W	402	Undefined organism found in <213> in SEQ ID (17)
W	213	Artificial or Unknown found in <213> in SEQ ID (19)
W	402	Undefined organism found in <213> in SEQ ID (29)
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W	402	Undefined organism found in <213> in SEQ ID (36)
W	213	Artificial or Unknown found in <213> in SEQ ID (39)
W	213	Artificial or Unknown found in <213> in SEQ ID (40)
W	402	Undefined organism found in <213> in SEQ ID (41)
W	213	Artificial or Unknown found in <213> in SEQ ID (42)
W	213	Artificial or Unknown found in <213> in SEQ ID (43)
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W	213	Artificial or Unknown found in <213> in SEQ ID (48)
W	213	Artificial or Unknown found in <213> in SEQ ID (49)
W	402	Undefined organism found in <213> in SEQ ID (50)
W	402	Undefined organism found in <213> in SEQ ID (51)

Input Set:

Output Set:

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Total Warnings: 44

Total Errors: 0

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Actual SeqID Count: 107

Err	or code	Error Description
W	213	Artificial or Unknown found in <213> in SEQ ID (52)
W	402	Undefined organism found in <213> in SEQ ID (53)
M	402	Undefined organism found in <213> in SEQ ID (54)
M	402	Undefined organism found in <213> in SEQ ID (56)
M	402	Undefined organism found in <213> in SEQ ID (57)
M	402	Undefined organism found in <213> in SEQ ID (58)
W	402	Undefined organism found in <213> in SEQ ID (59)
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W	402	Undefined organism found in <213> in SEQ ID (61)
M	402	Undefined organism found in <213> in SEQ ID (65)
M	402	Undefined organism found in <213> in SEQ ID (72)
W	402	Undefined organism found in <213> in SEQ ID (78) This error has occured more than 20 times, will not be displayed
W	213	Artificial or Unknown found in <213> in SEQ ID (106)

SEQUENCE LISTING

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		- 2010-		14											
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			-		344	•									
<400	>	1													
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1				5					10					15	
Gly	Thr	Thr	Val	Ser	Asn	Tyr	Ala	Leu	Ala	Gln	Ala	Gln	Ala	Gln	Ala
			20					25					30		
7	7	_	_		~ 7	_	_	2	_	_	_	3	7	_	3
Gln	Val	Lys	Lys	Asp	GLu	Leu		GLu	Leu	Lys	Lys		Val	Lys	GLu
		35					40					45			
Met	Asn	Ala	Δla	Tlo	Asn	Glv	Tlo	T. - 11	Asn	Asn	Asn	Tlo	Δla	Tur	Glu
. 100	50	mu	mu	110	1150	55	110	шси	1100	1150	60	110	1114	1 y 1	Giu
Ala	Glu	Val	Asp	Ala	Lys	Leu	Asp	Gln	His	Ser	Ala	Ala	Leu	Gly	Arg
65			_		70		_			75				_	80
His	Thr	Asn	Arg	Leu	Asn	Asn	Leu	Lys	Thr	Ile	Ala	Glu	Lys	Ala	Lys
				85					90					95	
G1 v	Asn	Ser	Ser	Glii	Ala	T.011	Asn	Twa	Tla	G111	Ala	T.🗀11	Glii	Glu	Gln

Asn Asp Glu Phe Leu Ala Asp Ile Thr Ala Leu Glu Glu Gly Val Asp Gly Leu Asp Asp Ise Ala Gly Ile Gln Asp Asn Ile Ser Asp Ile Glu Asp Asp Ile Asn Gln Asn Ser Ala Asp Ile Ala Thr Asn Thr Ala Ala Ile Ala Thr His Thr Gln Arg Leu Asp Asn Leu Asp Asn Arg Val Asn Asn Leu Asn Lys Asp Leu Lys Arg Gly Leu Ala Ala Gln Ala Ala Leu Asn Gly Leu Phe Gln Pro Tyr Asn Val Gly Lys Leu Asn Leu Thr Ala Ala Val Gly Gly Tyr Lys Ser Gln Thr Ala Val Ala Val Gly <210> 2 <211> 338 <212> PRT <213> Escherichia coli <400> 2 Met Lys Thr Val Asn Val Ala Leu Leu Ala Leu Ile Ile Ser Ala Thr Ser Ser Pro Val Val Leu Ala Gly Asp Thr Ile Glu Ala Ala Ala Thr Glu Leu Ser Ala Ile Asn Ser Gly Met Ser Gln Ser Glu Ile Glu Gln Lys Ile Thr Arg Phe Leu Glu Arg Thr Asp Asn Ser Pro Ala Ala Tyr Thr Tyr Leu Thr Glu His His Tyr Ile Pro Ser Glu Thr Pro Asp Thr

Thr Gln Thr Pro Thr Val Gln Thr Asp Pro Asp Ala Gly Gln Lys Thr

90 95

Val Ala Ala Thr Gly Asp Val Gln Thr Thr Ala Arg Tyr Gln Ser Met

100 105 110

Ile Asn Ala Arg Gln Ser Ala Val Thr Asp Ala Gln Gln Thr Gln Ile
115 120 125

Thr Glu Gln Gln Ala Gln Ile Val Ala Thr Gln Lys Thr Leu Ala Ala 130 135 140

Thr Gly Asp Thr Gln Asn Thr Ala His Tyr Gln Glu Met Ile Asn Ala 145 150 150

Arg Leu Ala Ala Gln Asn Glu Ala Asn Gln Arg Thr Ala Thr Glu Gln
165 170 175

Gly Gln Lys Met Asn Ala Leu Thr Thr Asp Val Ala Val Gln Gln Gln
180 185 190

Asn Glu Arg Thr Gln Tyr Asp Lys Gln Met Gln Ser Leu Ala Gln Glu
195 200 205

Ser Ala Gln Ala His Glu Gln Ile Asp Ser Leu Ser Gln Asp Val Thr 210 220

Gln Thr His Gln Gln Leu Thr Asn Thr Gln Lys Arg Val Ala Asp Asn 225 230 235 240

Ser Gln Gln Ile Asn Thr Leu Asn Asn His Phe Ser Ser Leu Lys Asn 245 250 255

Glu Val Asp Asp Asn Arg Lys Glu Ala Asn Ala Gly Thr Ala Ser Ala 260 270

Ile Ala Ile Ala Ser Gln Pro Gln Val Lys Thr Gly Asp Val Met Met 275 280 285

Val Ser Ala Gly Ala Gly Thr Phe Asn Gly Glu Ser Ala Val Ser Val 290 295 300

Gly Thr Ser Phe Asn Ala Gly Thr His Thr Val Leu Lys Ala Gly Ile 305 310 315 Ser Ala Asp Thr Gln Ser Asp Phe Gly Ala Gly Val Gly Val Gly Tyr
325 330 335

Ser Phe

<210> 3

<211> 1588

<212> PRT

<213> Escherichia coli

<400> 3

Met Asn Lys Ile Phe Lys Val Ile Trp Asn Pro Ala Thr Gly Asn Tyr

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Ser Lys Leu Ile Ser Ala Leu Val Ala Gly Gly Met Leu Ser Ser 35 40 45

Phe Gly Ala Leu Ala Asn Ala Gly Asn Asp Asn Gly Gln Gly Val Asp 50 55

Tyr Gly Ser Gly Ser Ala Gly Asp Gly Trp Val Ala Ile Gly Lys Gly 65 70 75 80

Ala Lys Ala Asn Thr Phe Met Asn Thr Ser Gly Ser Ser Thr Ala Val
85 90 95

Gly Tyr Asp Ala Ile Ala Glu Gly Gln Tyr Ser Ser Ala Ile Gly Ser

100 105 110

Lys Thr His Ala Ile Gly Gly Ala Ser Met Ala Phe Gly Val Ser Ala 115 120 125

Leu Gly Gln Tyr Ser Met Ala Leu Gly Arg Tyr Ser Lys Ala Leu Gly 145 150 155 160

Lys	Leu	Ser	Ile	Ala 165	Met	Gly	Asp	Ser	Ser 170	Lys	Ala	Glu	Gly	Ala 175	Asn
Ala	Ile	Ala	Leu 180	Gly	Asn	Ala	Thr	Lys 185	Ala	Thr	Glu	Ile	Met 190	Ser	Ile
Ala	Leu	Gly 195	Asp	Thr	Ala	Asn	Ala 200	Ser	Lys	Ala	Tyr	Ser 205	Met	Ala	Leu
Gly	Ala 210	Ser	Ser	Val	Ala	Ser 215	Glu	Glu	Asn	Ala	Ile 220	Ala	Ile	Gly	Ala
225					230					235	_				Lys 240
			Thr	245					250					255	
			Thr 260					265	_				270		_
		275	Ala				280					285			
	290		Ala			295				_	300				Ala
305			Ser		310					315					320
			Asp	325					330					335	_
Lys	Arg	Lys	340 Ile	Val	Asn	Val	Lys	345 Asn	Gly	Ala	Ile	Lys	350 Ser	Asp	Ser
		355	Ile				360					365			
<u>.</u>	370				7	375			4		380		1		

Ala Lys Arg Leu Gly Gly Gly Ala Ala Val Asp Val Asp Asp Gly Thr

385 390 395 400

Val Thr Ala Pro Thr Tyr Asn Leu Lys Asn Gly Ser Lys Asn Asn Val
405 410 415

Gly Ala Ala Leu Ala Val Leu Asp Glu Asn Thr Leu Gln Trp Asp Gln
420 425 430

Thr Lys Gly Lys Tyr Ser Ala Ala His Gly Thr Ser Ser Pro Thr Ala 435 440 445

Ser Val Ile Thr Asp Val Ala Asp Gly Thr Ile Ser Ala Ser Ser Lys
450
460

Asp Ala Val Asn Gly Ser Gln Leu Lys Ala Thr Asn Asp Asp Val Glu 465 470 475 480

Ala Asn Thr Ala Asn Ile Ala Thr Asn Thr Ser Asn Ile Ala Thr Asn
485
490
495

Thr Ala Asn Ile Ala Thr Asn Thr Thr Asn Ile Thr Asn Leu Thr Asp 500 510

Ser Val Gly Asp Leu Gln Ala Asp Ala Leu Leu Trp Asn Glu Thr Lys
515 520 525

Lys Ala Phe Ser Ala Ala His Gly Gln Asp Thr Thr Ser Lys Ile Thr 530 540

Asn Val Lys Asp Ala Asp Leu Thr Ala Asp Ser Thr Asp Ala Val Asn 545 550 560

Gly Ser Gln Leu Lys Thr Thr Asn Asp Ala Val Ala Thr Asn Thr Thr 565 570 575

Asn Ile Ala Asn Asn Thr Ser Asn Ile Ala Thr Asn Thr Thr Asn Ile 580 590

Ser Asn Leu Thr Glu Thr Val Thr Asn Leu Gly Glu Asp Ala Leu Lys 595 600 605

Trp Asp Lys Asp Asn Gly Val Phe Thr Ala Ala His Gly Thr Glu Thr 610 620

Thr 625	Ser	Lys	Ile	Thr	Asn 630	Val	Lys	Asp	Gly	Asp 635	Leu	Thr	Thr	Gly	Ser 640
Thr	Asp	Ala	Val	Asn 645	Gly	Ser	Gln	Leu	Lys 650	Thr	Thr	Asn	Asp	Ala 655	Val
Ala	Thr	Asn	Thr 660	Thr	Asn	Ile	Ala	Thr 665	Asn	Thr	Thr	Asn	Ile 670	Ser	Asn
Leu	Thr	Glu 675	Thr	Val	Thr	Asn	Leu 680	Gly	Glu	Asp	Ala	Leu 685	Lys	Trp	Asp
Lys	Asp	Asn	Gly	Val	Phe	Thr 695	Ala	Ala	His	Gly	Asn 700	Asn	Thr	Ala	Ser
Lys 705	Ile	Thr	Asn	Ile	Leu 710	Asp	Gly	Thr	Val	Thr 715	Ala	Thr	Ser	Ser	Asp 720
Ala	Ile	Asn	Gly	Ser 725	Gln	Leu	Tyr	Asp	Leu 730	Ser	Ser	Asn	Ile	Ala 735	Thr
Tyr	Phe	Gly	Gly 740	Asn	Ala	Ser	Val	Asn 745	Thr	Asp	Gly	Val	Phe 750	Thr	Gly
Pro	Thr	Tyr 755	Lys	Ile	Gly	Glu	Thr 760	Asn	Tyr	Tyr	Asn	Val 765	Gly	Asp	Ala
Leu	Ala 770	Ala	Ile	Asn	Ser	Ser 775	Phe	Ser	Thr	Ser	Leu 780	Gly	Asp	Ala	Leu
Leu 785	Trp	Asp	Ala	Thr	Ala 790	Gly	Lys	Phe	Ser	Ala 795	Lys	His	Gly	Thr	Asn 800
Gly	Asp	Ala	Ser	Val 805	Ile	Thr	Asp	Val	Ala 810	Asp	Gly	Glu	Ile	Ser 815	Asp
Ser	Ser	Ser	Asp 820	Ala	Val	Asn	Gly	Ser 825	Gln	Leu	His	Gly	Val 830	Ser	Ser
Tyr	Val	Val	Asp	Ala	Leu	Gly	Gly	Gly	Ala	Glu	Val	Asn	Ala	Asp	Gly

Thr Ile Thr Ala Pro Thr Tyr Thr Ile Ala Asn Ala Asp Tyr Asp Asn 850 860

Val Gly Asp Ala Leu Asn Ala Ile Asp Thr Thr Leu Asp Asp Ala Leu 865 870 875 880

Leu Trp Asp Ala Asp Ala Gly Glu Asn Gly Ala Phe Ser Ala Ala His
885 890 895

Gly Lys Asp Lys Thr Ala Ser Val Ile Thr Asn Val Ala Asn Gly Ala 900 910

Ile Ser Ala Ala Ser Ser Asp Ala Ile Asn Gly Ser Gln Leu Tyr Thr 915 920 925

Thr Asn Lys Tyr Ile Ala Asp Ala Leu Gly Gly Asp Ala Glu Val Asn 930 940

Ala Asp Gly Thr Ile Thr Ala Pro Thr Tyr Thr Ile Ala Asn Ala Glu 945 950 955 960

Tyr Asn Asn Val Gly Asp Ala Leu Asp Ala Leu Asp Asp Asn Ala Leu 975

Leu Trp Asp Glu Thr Ala Asn Gly Gly Ala Gly Ala Tyr Asn Ala Ser 980 985 990

His Asp Gly Lys Ala Ser Ile Ile Thr Asn Val Ala Asn Gly Ser Ile 995 1000 1005

Ser Glu Asp Ser Thr Asp Ala Val Asn Gly Ser Gln Leu Asn Ala 1010 1025

Thr Asn Met Met Ile Glu Gln Asn Thr Gln Ile Ile Asn Gln Leu 1025 1030 1035

Ile Asn Tyr Val Arg Thr Asn Asp Asp Gly Leu Ala Phe Asn Asp 1055 1065

Ala	Ser	Ala	Gln	Gly	Val	Gly	Ala	Thr	Ala	Ile	Gly	Tyr	Asn	Ser
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Val	Ala	Lys	Gly	Asp	Ser	Ser	Val	Ala	Ile	Gly	Gln	Gly	Ser	Tyr
	1085					1090					1095			

Ser Asp	Val	Asp	Thr	Gly	Ile	Ala	Leu	Gly	Ser	Ser	Ser	Val	Ser
1100					1105					1110			

Ser	Arg	Val	Ile	Ala	Lys	Gly	Ser	Arg	Asp	Thr	Ser	Ile	Thr	Glu
	1115					1120					1125			

Asn	Gly	Val	Val	Ile	Gly	Tyr	Asp	Thr	Thr	Asp	Gly	Glu	Leu	Leu
	1130					1135					1140			

Asn Val Ala Asp Gly Ser Glu Ala His Asp Ala Val Thr Val Arg 1160 1170

Gln Leu Gln Asn Ala Ile Gly Ala Val Ala Thr Thr Pro Thr Lys 1175 1180 1185

Tyr Phe His Ala Asn Ser Thr Glu Glu Asp Ser Leu Ala Val Gly 1190 1200

Thr Asp Ser Leu Ala Met Gly Ala Lys Thr Ile Val Asn Gly Asp 1205 1210 1215

Leu Asn Gly Ile Ala Ile Gly Ser Asn Ala Gln Val Ile His Val 1235 1240 1245

Asn Ser Ile Ala Ile Gly Asn Gly Ser Thr Thr Thr Arg Gly Ala 1250 1255 1260

Val Gly Glu Phe Ser Val Gly Ser Ala Asp Gly Gln Arg Gln Ile

1280 1285 1290

Thr Asn Val Ala Ala Gly Ser Ala Asp Thr Asp Ala Val Asn Val Gly Gln Leu Lys Val Thr Asp Ala Gln Val Ser Gln Asn Thr Gln Ser Ile Thr Asn Leu Asp Asn Arg Val Thr Asn Leu Asp Ser Arg Val Thr Asn Ile Glu Asn Gly Ile Gly Asp Ile Val Thr Thr Gly Ser Thr Lys Tyr Phe Lys Thr Asn Thr Asp Gly Val Asp Ala Ser Ala Gln Gly Lys Asp Ser Val Ala Ile Gly Ser Gly Ser Ile Ala Ala Ala Asp Asn Ser Val Ala Leu Gly Thr Gly Ser Val Ala Thr Glu Glu Asn Thr Ile Ser Val Gly Ser Ser Thr Asn Gln Arg Arg

Ile Thr Asn Val Ala Ala Gly Lys Asn Ala Thr Asp Ala Val Asn

1405 1410

Val Ala Gln Leu Lys Ser Ser Glu Ala Gly Gly Val Arg Tyr Asp